

OLEFIN OXIDE CATALYSTS

5 **ABSTRACT**

The invention provides a process for the oxidation of olefins having three or more carbon atoms in which the olefin is reacted with oxygen in the presence of a catalyst containing silver and a promoter containing potassium and a promoter containing rhenium deposited on an α -alumina carrier, in which the potassium promoter provides potassium at a concentration of up to 120 μ mole per gram of catalyst. The invention further provides a catalyst composition for the oxidation of olefins having three or more carbon atoms in which the catalyst contains silver and a promoter containing potassium and a promoter containing rhenium deposited on an α -alumina carrier, in which the potassium promoter provides potassium at a concentration of from 8 μ mole per gram to 120 μ mole per gram of catalyst.